

Claims:

Claim 1-15 (cancelled)

- 5 16 (new). A system of Internet based time distributed two-way personal mobile communication, comprising:
- one Time Distributed Message Network (TDMN) running on Internet;
 - a plurality of wireless Access Points (APs) connecting to Internet;
 - a plurality of Personal Mobile Access Device (PAMD);
- 10 Wherein said TDMN is a group of server means operating on Internet;
- Wherein said wireless Access Point (AP) is a wireless networking device;
- Wherein said PAMD is personal mobile communication device with user and media interfaces;
- 15 Wherein said PAMD also has wireless networking means to communicate with said APs;
- Wherein said PAMD comprising operational means to join said TDMN for communication via Internet connection;
- Wherein one of said a plurality of PAMD is communicating with remote
- 20 other one of said a plurality of PAMD via said TDMN;
- Wherein said TDMN manages communication among said a plurality of PAMDs; and
- Wherein said TDMN and said a plurality PAMDs running correspondent operation means for joining network and
- 25 communication.

17 (new) The Time Distributed Message Network (TDMN) of claim 16, wherein said TDMN comprising TDMN operation means:

Whereby, said TDMN operation means storing the undelivered message when the communication of receiving PAMD to said TDMN is interrupted; and

5 Whereby, said TDMN operation means continue delivering said undelivered message when the interrupted communication of said receiving PAMD to said TDMN reestablishes.

10 18 (new) The Time Distributed Message Network (TDMN) of claim 16, wherein said TDMN comprising Access Domain and Core Domain and TDMN operation means;

 wherein said Access Domain comprising a plurality of Access Servers (AS) connecting to Internet;

 wherein further said Access Servers are connecting to a plurality of Access Point (APs) of claim 16 via Internet;

15 wherein said Core Domain managing the communication among Access Domains;

 wherein said Core Domain comprising servers with Internet connections;

 wherein said TDMN operation means managing the operation of said

20 TDMN and a plurality of PAMDs of claim 16; and

 wherein said TDMN operation means manage the message communication among said PAMDs in time distributed method;

25 19 (new) The PAMD of claim 16 comprising data packaging means of package data information into message units, and, transmit and receive the said message units via Internet and the TDMN of claim 16,

 wherein transmitting and receiving of said message units is time-distributed, and

wherein said data packaging means package data source into a plurality of Time Distributed Message Units (TDMUs).

20(new), The PAMD of claim 19, comprising:

- 5 means to convert the data resource to be transferred in to TDMU;
 means to convert the received TDMU into original data format;
 and
 means to control the communication with other PAMD of claim 19.

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21 (new). The system of Internet based time distributed two-way personal mobile communication of claim 16, wherein a plurality of PAMDs of claim 16 can perform group communication.

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22 (new). Method of time distributed two-way mobile message communication over Internet according to claim 16 comprising:

- operating TDMN of claim 16, wherein said TDMN operation means
 control the access of a plurality of PAMDs of claim 16, wherein
 TDMN manage the communication among said PAMDs, wherein
20 said TDMN operation means ensures message exchange among
 said PAMDs;

 having first of said a plurality of PAMDs networking wirelessly to one
 of a plurality APs of claim 16 to establish Internet connection and
 then join said TDMN,

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 having second of said a plurality of PAMDs networking wirelessly to
 one of said a plurality of APs to establish Internet connection and
 then join said TDMN,

 establishing communication between said first and second PAMD via
 said TDMN, and

communicating messages among said first and second PAMD via
said TDMN.

5 23(new) The method of claim 21, whereby TDMN store all the
undelivered messages for the receiving PAMD when the
communication of said receiving PAMD with said TDMN is not
available, and whereby said TDMN continue to delivery said stored
messages to said receiving PAMD when said receiving PAMD re-
establishes communication with said TDMN.

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24(new) The method of claim 21, wherein said message communication
among said first and second PAMD via TDMN is on time distributed
method

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25(new) The method of claim 21, wherein TDMN operation means
guarantee the sending and receiving of messages among the a
plurality of PAMDs.

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26(new) The method of claim 21, wherein PAMD packages source date
into TDMU of claim 19 to transmit and receive among PAMD and
TDMN over Internet.

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27 (new). Method of group time distributed two-way mobile message
communication over Internet according to claim 22, wherein a
plurality of PAMDs of claim 16 joining an operating TDMN of claim 16
performing group communication among each other.